## Amendments to the Claims

Please amend the claims to read as follows:

## 1-80. (Canceled)

- 81. (New) An aquaculturally-raised aquatic animal made by cultivating an aquatic animal with a feed, wherein at least 1% by weight of the fat content of the feed is omega-3 long chain polyunsaturated fatty acid (O3-LC-PUFA) derived from a non-animal source.
- 82. (New) The animal of claim 81, wherein the O3-LC-PUFA comprises at least one of docosahexaenoic acid (DHA), eicosapentaenoic acid (EPA), and arachidonic acid (ARA).
- 83. (New) The animal of claim 81, wherein the O3-LC-PUFA comprises DHA.
- 84. (New) The animal of claim 81, wherein from 1% to 50% by weight of the fat content of the feed is DHA.
- 85. (New) The animal of claim 81, wherein the feed comprises less than 5% animal material.
- 86. (New) The animal of claim 81, wherein the feed is substantially free of animal material.
- 87. (New) The animal of claim 81, wherein the feed meets the organic certification requirements of the 2002 United States Department of Agriculture National Organic Program Standards (USDA NOPS).
- 88. (New) The animal of claim 81, wherein the animal meets the organic certification requirements of the 2002 USDA NOPS.
- 89. (New) The animal of claim 81, wherein the O3-LC-PUFA is derived from microalgae.

- 90. (New) The animal of claim 89, wherein the microalgae are selected from the group consisting of *Crypthecodinium*, *Schizochytrium*, *Thraustochytrium*, *Pavlova*, *Tetraselmis*, and *Isochrysis* species, and combinations of these.
- 91. (New) The animal of claim 81, comprising at least 12 grams of DHA per kilogram of animal.
- 92. (New) The animal of claim 81, being a crustacean.
- 93. (New) The animal of claim 81, being a shrimp.
- 94. (New) The shrimp of claim 93, comprising more than 3 milligrams DHA per gram dry weight of shrimp.
- 95. (New) The animal of claim 81, being a fish.
- 96. (New) The fish of claim 95, wherein more than about 5% of the total extractable fat of the fish is DHA.
- 97. (New) The animal of claim 81, being a catfish.
- 98. (New) The animal of claim 81, being a mollusk.
- 99. (New) The mollusk of claim 98, wherein more than about 10% of the total extractable fat of the mollusk is DHA.
- 100. (New) The mollusk of claim 98, being an abalone.

- 101. (New) The animal of claim 81, wherein the feed comprises at least one carotenoid derived from a non-animal source.
- 102. (New) The animal of claim 101, wherein the carotenoid is selected from the group consisting of lutein, zeaxanthin, and lycopene.

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- 103. (New) The animal of claim 102, comprising at least about 60 milligrams lutein per kilogram of animal.
- 104. (New) The animal of claim 102, comprising at least about 60 milligrams zeaxanthin per kilogram of animal.
- 105. (New) The animal of claim 101, wherein less than about 50% of the total carotenoid content of the animal is astaxanthin.
- 106. (New) The animal of claim 101, wherein the source is selected from the group consisting of marigold petals, Lycium Chinese Mill Berries, tomatoes, microalgae, diatoms, and bacteria.
- 107. (New) The animal of claim 101, wherein the feed further comprises a phospholipid in an amount sufficient to enhance the bioavailability of the carotenoid.
- 108. (New) The animal of claim 107, wherein the phospholipid is a phospholipid extracted from a marine algae.
- 109. (New) The animal of claim 81, wherein the feed further comprises a taurine-containing material.
- 110. (New) The animal of claim 109, wherein the feed comprises at least 10 milligrams taurine per kilogram.

- 111. (New) The animal of claim 81, wherein the animal has been cultivated with the feed for at least two weeks prior to harvest.
- 112. (New) A method of aquaculturally-raising an aquatic animal, the method comprising cultivating the animal with a feed, wherein at least 1% by weight of the fat content of the feed is omega-3 long chain polyunsaturated fatty acid (O3-LC-PUFA) derived from a non-animal source.
- 113. (New) In a method of aquaculturally-raising an aquatic animal, the improvement comprising cultivating the animal with a feed, wherein at least 1% by weight of the fat content of the feed is omega-3 long chain polyunsaturated fatty acid (O3-LC-PUFA) derived from a non-animal source.
- 114. (New) A feed for cultivating aquaculturally-raised aquatic animals, the feed comprising a fat component, wherein at least 1% by weight of the fat content of the feed is omega-3 long chain polyunsaturated fatty acid (O3-LC-PUFA) derived from a non-animal source.